

Low level thermal energy conversion system

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Abstract of DE19712325

The gas used has low evaporation enthalpy in relation to the specific heating capacity. A liquid is evaporated in contra-flow to the condenser of a heat pump, and superheated, the gas produced being then used to drive a gas-engine, turbine, etc. generating mechanical energy and expanding in the process into the saturated-steam state. Complete condensation takes place in a heat exchanger in the evaporator or superheater of the heat pump, the condensate being returned by a feed pump to the evaporator, where it is evaporated again and thermally compressed in the process. The heat energy required for the latter, and the necessary cooling effect, are provided with the aid of the heat pump.

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Die folgenden Angaben sind den vom Anmelder eingereichten Unterlagen entnommen

⑤4 Anlage zur Umwandlung thermischer Energie niedrigen Niveaus in mechanische Energie

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